LABDEX

Fluorescence Cell Counter LX5001FCR

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Description

Fluorescence Cell Counter LX5001FCR features dual fluorescent excitation wavelengths and detection filters, along with a bright field view for all samples through its digital microscope optics. It enables routine analysis of cell density, viability, and transfection efficiency. Additionally, pre-configured applications ensure easy and reliable test execution.

Specifications

Screen	10.1-inch HD color screen
Storage	500 GB solid-state memory
Focus mode	Auto focus
Concentration range	$1x10^4$ to $5x10^7$ cells/ml
Diameter range	0 - 100%
Viability range	2 – 200 µm
Sample volume	20 µl
Measurement time	Single well, 3 samples, bright field:
Optical concentration	10 x Standard objective lens
Detect channel	Bright field + 2 Fluorescence channels (Blue, Green)
Fluorescence channel	Blue (Ex: 480/40nm; Em: 535/40nm) Green (Ex: 540/25nm; Em: 620/60nm)
Output format	JPG, PDF, CSV
Camera	6 Megapixels, professional-grade CMOS color optical Imaging

Data transmission	Ethernet and one or more USB 3.0 ports
Product dimension (W x D x H)	190 x 276 x 367 mm
Packaging dimension (W x D x H)	400 x 500 x 400 mm
Gross weight	5 Kg

Features

- Begins the entire counting and analysis process with a single click for ease of use
- Automatically adjusts focus using patented auto focus technology for sharp, high-definition images
- Employs a deep learning AI algorithm
- Measures cell count, viability, density, and transfection rates with high precision
- Supports AO/PI double fluorescent staining
- Capable of detecting GFP fluorescence for transfection efficiency analysis
- Fully compliant with FDA 21 CFR Part 11 for data integrity and electronic record
- Displays results in intuitive formats including graphs, overlays, and statistics

Applications

- Laboratory instrument used to count and analyze cells in a biological sample. Used in research, immunology, microbiology, and stem cell studies.

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